GENERAL MECHANICAL NOTES

1. ALL NOTES, ABBREVIATIONS AND SYMBOLS ON THIS DRAWING APPLY TO ALL THE MECHANICAL DRAWINGS IN THIS PACKAGE.
2. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL MATERIAL, CONSTRUCTION, WORKMANSHIP, TESTING AND COMMISSIONING REQUIREMENTS. WHERE A CONFLICT EXISTS BETWEEN THE SPECIFICATION AND PROJECT DRAWINGS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. ALL MECHANICAL WORK TO BE DONE IN ACCORDANCE WITH THE GENERAL CONTRACTORS PHASING PLAN.
4. ALL MECHANICAL WORK TO BE DONE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE - 2009 EDITION AND ITS ADDENDUMS. SMACNA DUCT CONSTRUCTION STANDARDS - 2005, SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE - 2002. NFPA 90A - STANDARD FOR THE INSTALLATION OF VENTILATION AND AIR CONDITIONING SYSTEMS - 2009.
5. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICTS EXIST BETWEEN PROJECT DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
6. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGE CAUSED BY THE MECHANICAL CONTRACTOR TO ANY NEW OR EXISTING BUILDING SYSTEMS.
7. COORDINATE INSTALLATIONS WITH THE GENERAL CONTRACTOR, STRUCTURAL, ELECTRICAL AND ARCHITECTURAL DESIGN. CONSULT STRUCTURAL ENGINEER BEFORE ANY MODIFICATIONS TO STRUCTURAL MEMBERS.
8. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC. THE EXACT LOCATION OF MECHANICAL EQUIPMENT AND SYSTEMS IS TO BE DETERMINED BY THE MECHANICAL CONTRACTOR.
9. PROVIDE OFFSETS AS REQUIRED TO ROUTE PIPING AND DUCT AROUND OTHER BUILDING SYSTEMS AND EQUIPMENT.
10. SEAL PENETRATIONS THROUGH PARTITIONS FOR SOUND. SEAL FIRE RATED PARTITIONS IN ACCORDANCE WITH UL APPROVED ASSEMBLY FOR THE ASSOCIATED FIRE RATING. PROVIDE FIRE DAMPER AND ASSOCIATED ACCESS DOOR WHERE FIRE DAMPERS ARE INDICATED ON THE MECHANICAL PLANS.
11. SEE DETAILS FOR TYPICAL INSTALLATIONS NOT SHOWN ON THE MECHANICAL PLANS.
12. ALL MECHANICAL DUCT AND PIPING IS TO BE CONCEALED IN WALLS , FLOORS AND CEILINGS UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS WHERE REQUIRED TO ACCESS VALVES, DAMPERS, CONTROLS AND OTHER MAINTENANCE ITEMS.
13. COORDINATE MECHANICAL FLOOR, WALL AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
14. PROVIDE EQUIPMENT, PIPING AND DUCTWORK INSULATION AS REQUIRED IN THE PROJECT SPECIFICATION.
15. PROVIDE HVAC CONTROLS AS REQUIRED IN THE PROJECT SPECIFICATION.

ABBREVIATIONS

ADJ	ADJUSTABLE
AFF	ABOVE FLOOR FACE
BFF	BELOW FLOOR FACE
BFP	BACK FLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BHP	BRAKE HORSEPOWER
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
COA	CONDITIONED OUTSIDE AIR
DB	DRY BULB
ESP	EXTERNAL STATIC PRESSURE
F	DEGREE FAHRENHITE
FO	FUEL OIL
FCO	FLOOR CLEAN OUT
FPW	FIRE PROTECTION WATER
HRV	HEAT RECOVERY VENTILATOR
HRVEXH	HEAT RECOVERY VENTILATOR EXHAUST
HWR	HYDRONIC WATER RETURN
HWS	HYDRONIC WATER SUPPLY
MBH	1000 BTU PER HOUR
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PEX	CROSS LINKED POLYETHYLENE
RLF	RELIEF AIR
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
WB	WET BULB
WC	WATER COLUMN

SYMBOLS

- CLEAN OUT
- PIPE CONTINUES
- HYDRONIC SUPPLY
- HYDRONIC RETURN
- UNDERGROUND / UNDERSLAB PIPE
- SUPPLY DUCT
- RETURN DUCT
- SUPPLY DIFFUSER
- BLANKED OFF DIRECTION OF SUPPLY DIFFUSER
- RETURN GRILLE
- VOLUME DAMPER
- F — FIRE DAMPER
- S — SMOKE DAMPER
- MM — MODULATING MOTORIZED DAMPER
- MT — TWO POSITION MOTORIZED DAMPER
- PIPE DROP
- PIPE RISER
- BALL VALVE
- GATE VALVE
- CHECK VALVE
- RELIEF VALVE
- BALANCE VALVE
- CIRCULATION PUMP
- Y - STRAINER
- VB — VACUUM BREAKER
- A V — AUTOMATIC VENT
- M V — MANUAL VENT
- T — THERMOMETER IN THERMOWELL
- P — PRESSURE GAUGE W/ PETCOCK
- PIPE REDUCER / INCREASER
- TIE-IN TO EXISTING SYSTEM
- CAP
- LOCKABLE VALVE
- R-1 — DIFFUSER / RETURN TAG #
- 480 — DESIGN AIRFLOW IN CFM
- T — THERMOSTAT
- H — HUMIDITY SENSOR
- S — TEMPERATURE SENSOR
- MS — MOTION SENSOR
- SM — SMOKE DETECTOR
- C — CO2 SENSOR
- F — FLOW SENSOR
- FS — FREEZE STAT
- PRESSURE REGULATOR
- MODULATING CONTROL VALVE
- TWO POSITION CONTROL VALVE
- BACK FLOW PREVENTER

12-21-16 Issued for Review
4-12-17 Issued for Bidding

STATE OF MAINE
ANDREW W. HOLBROOK
No. 9103
4/12/2017
LICENSED
PROFESSIONAL ENGINEER

Date: 04/25/17

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207 283 9127

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BARTLETT DESIGN
942 WASHINGTON STREET
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PROPOSED IMPROVEMENTS

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